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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,782	09/15/2003	Samuel H. Duncan	200209082-1	1497

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HEWLETT-PACKARD COMPANY
Intellectual Property Administration
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EXAMINER

CERULLO, JEREMY S

ART UNIT PAPER NUMBER

2112

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/662,782

Applicant(s)

DUNCAN ET AL.

Examiner

Jeremy S. Cerullo

Art Unit

2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 8, 13, 15, and 17-22 is/are rejected.
- 7) ☒ Claim(s) 5-7, 9-12, 14 and 16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 20030915
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-22 are pending in this action.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 13 and 19-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 13 recites the limitation "the port logic" in lines 2-3 of the claim. There is insufficient antecedent basis for this limitation in the claim.

5. Claim 17 recites the limitation "each bus bridge" in the second line of the claim. There is insufficient antecedent basis for this limitation in the claim.

6. Claim 18 is rejected based on its dependency on Claim 17.

7. Claim 19 recites the limitation "each processor" in the third line of the claim. There is insufficient antecedent basis for this limitation in the claim.

8. Claims 20-22 are rejected based on their dependency on Claim 19.

9. Claim 21 recites the limitation "the means for storing" in the second line of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

11. Claims 1-4, 8, 15, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,625,679 ("Morrison" et al.).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

12. As for Claims 1-4, Morrison discloses a method that comprises periodically stalling issuance of device accesses, via simultaneous interrupts, in a multi-processor system until pending transfers (equivalent to reads) are completed. See Column 8, Lines 26-46.

13. As for Claim 8, Morrison discloses a computer system comprising a plurality of processors coupled to each other (Figures 3-4, Item 120i), at least one of the

processors coupled to an I/O device (Figure 3, Item 105) by way of a bridge logic device (Figures 3-4, Item 112i), and wherein the processors cease issuance of I/O device writes until pending transfers (equivalent to reads) are completed (Column 8, Lines 26-46).

14. As for Claim 15, Morrison discloses a processor (Figure 2, Item 14) that comprises a core (Figure 2, Item 140) and a controller (Figure 2, Item 141) and a port logic (Figure 2, Items 18, 143, and 144) coupled to the processor and the controller, wherein the processor periodically enters an interrupt mode in which it stops production of I/O requests (Column 8, Lines 26-46).

15. As for Claim 19, Morrison discloses a computer system comprising a plurality of processors (means for executing programs and instructions) coupled to each other (Figures 3-4, Item 120i), at least one of the processors coupled to an I/O device (means for receiving data from devices external to the computer system and sending data to devices external to the computer system) (Figure 3, Item 105) by way of a bridge logic device (means for bridging a first and second communication bus) (Figures 3-4, Item 112i), and wherein the processors cease issuance of I/O device writes until pending transfers (equivalent to reads) are completed (Column 8, Lines 26-46).

Allowable Subject Matter

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16. Claims 5-7, 9-12, 14, and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion


17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patent No. 5,252,507; U.S. Patent No. 5,367,695; U.S. Patent No. 5,440,747; U.S. Patent No. 5,875,343; U.S. Patent No. 5,884,088; U.S. Patent No. 6,166,748; and U.S. Patent No. 6,253,275.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy S. Cerullo whose telephone number is (571) 272-3634. The examiner can normally be reached on Monday - Thursday, 7:00-4:30; Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on (571) 272-3676. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


JSC


PAUL R. MYERS
PRIMARY EXAMINER